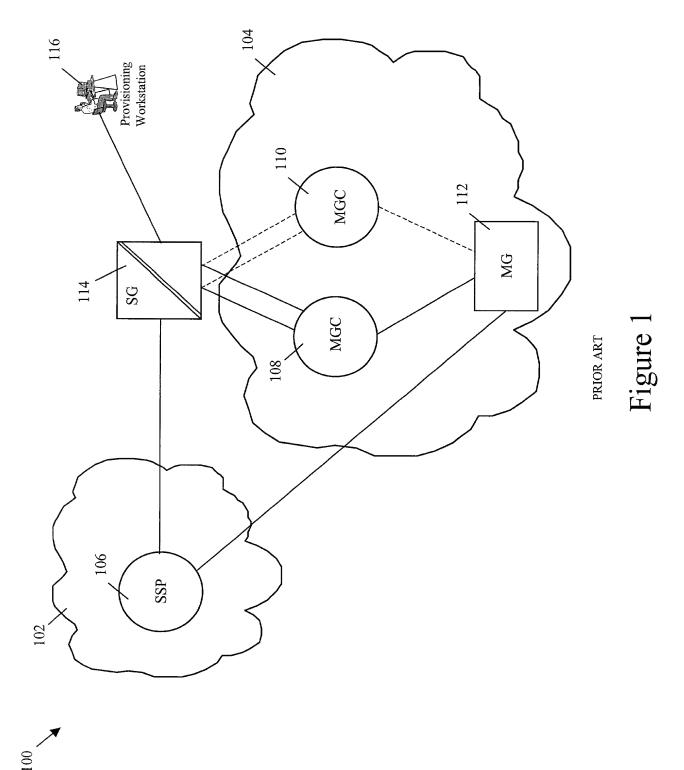
Title: Methods and Systems for Providing Dynamic Routing Key Registration Inventor(s): Davidson et al. Docket No.: 1322/45/2



Inventor(s): Docket No.:

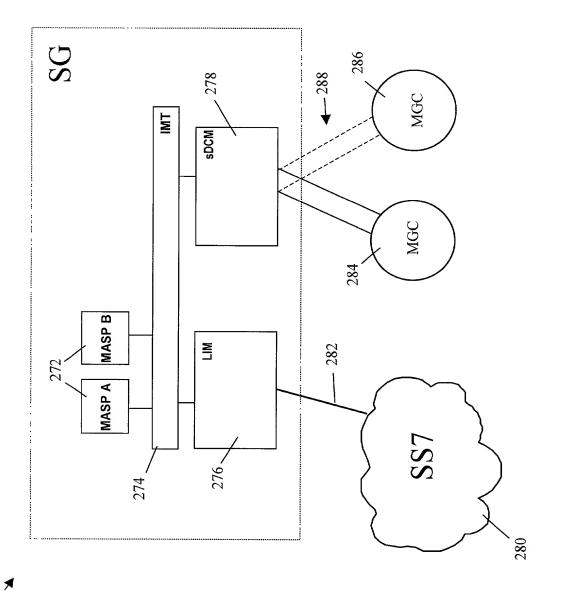
252 254 256 MAS COMMUNICATION APPLICATION PROCESSOR (MCAP) TERMINAL DISK MODULE (TDM) MAINTENANCE DISK AND ALARM MODULE (MDAL) MAINTENANCE AND ADMINISTRATION SUBSYSTEM INTERPROCESSOR MESSAGE TRANSPORT IMT POWER AND MULTIPLEXER (IPMX) 264 TSM COMMUNICATION SUBSYSTEM APPLICATION SUBSYSTEM 262 BUS (IMT)

• MAINTENANCE BUS ASM 260 DCM 258 ΣI

Figure 2

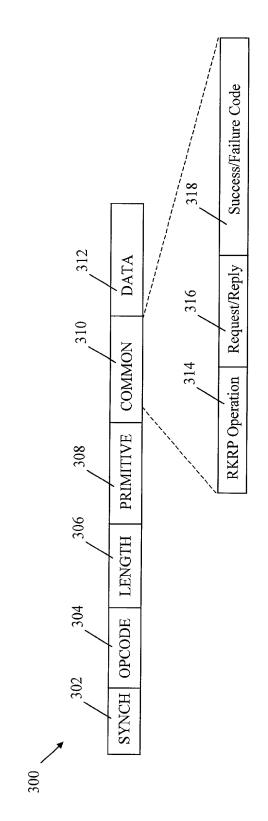
PRIOR ART

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TALI Registration Message Diagram



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Inventor(s): Davidson et al.
Docket No.: 1322/45/2

Routing Key Specific Data

332	334	336	338	340	342	344	346	348	350	352	354
Routing Key Type	Common	RKRP Flags	IS	DPC	OPC	CICS	CICE	SPLIT	SPLIT   NCICS   NCICE	NCICE	SSN
CIC Based	×	×	×	×	×	×	×	×	×	×	
SCCP Based	×	×	×	×							<b>*</b>
DPC-SI-OPC	×	×	×	×	×						
DPC-SI-*	×	×	×	×							
DPC-*-*	×	×		×							
*-IS-*	×	×	×								
* (Default)	×	×									

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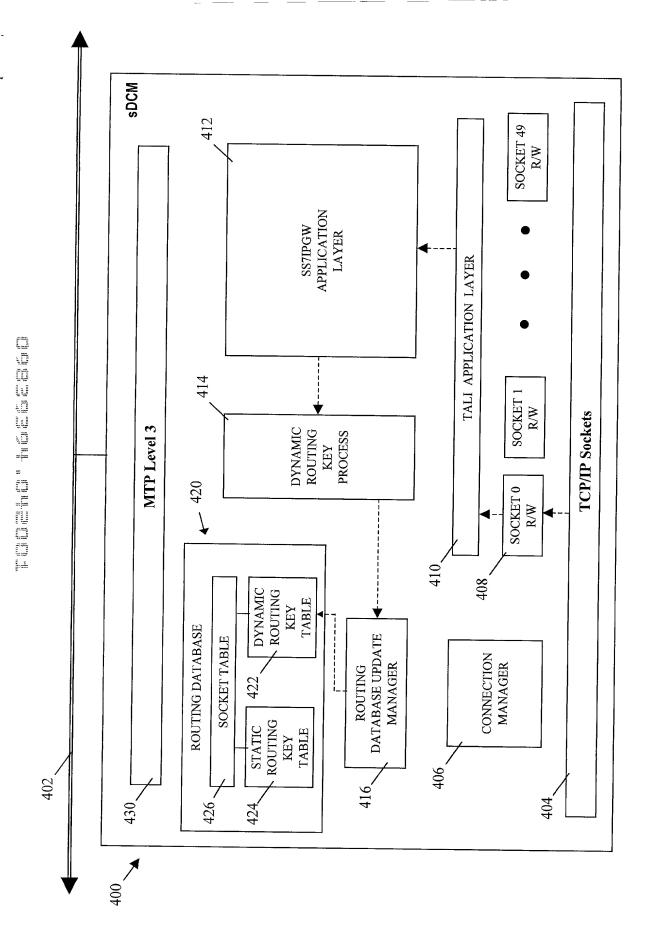


Figure 6

Title: Methods and Systems for Providing Dynamic Routing Key Registration
Inventor(s): Davidson et al.
Docket No.: 1322/45/2

Dynamic Routing Key Table	
KEY(s)	DATA
	468
450 452 454 456 458 460 462 464 466	\
	SOCKET
OPC SI CICS CICE SPLIT NCICS NCICE	П
6-1-1 3	Sock1
6-1-1 3	Sock2
3-1-3 6-1-1 3 12	Sock3
6-1-1 3	Sock4
7-1-1 5 25 28	Sock5
6-1-1 5 12	Sock6

		Socket Table	Table		
KEY		DATA			
480		482	4	484	486
				<del>-</del>	_
Socket	Local		/ Distant	1	Socket
Œ	IP Address	TCP Port	IP Address	TCP Port	Status
Sock1	10.10.10.10	24	10.10.10.1	24	V
Sock2	10.10.10.10	42	10.10.10.1	42	. ∀
Sock3	10.10.10.10	12	10.10.10.1	12	; ∢
Sock4	10.10.10.10	54	10.10.20.1	54	; ∢
Sock5	10.10.10.10	16	10.10.20.1	16	₹ ∀
Sock6	10.10.10.10	9/	10.10.20.1	17	n

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502 /	***	504 51	506
Return Code	/IS	Type of requests /	Description
1	all	all	Transaction successfully completed.
7	all	all	Length of TALI message is insufficient to contain all required information
3	N/A	all	Unsupported 'rkrp' operation
4	all	all	Invalid SI. SI must be in range 015
5	all	all	Invalid SI/opcode combination. Split and resize only supported for SI=5.
			Enter, delete and override supported for all SI.
9	all	all	Invalid DPC. Point code cannot be zero, and type must be ANSI.
7	3	all with SI=3	Invalid SSN. SSN must be in range 0255.
œ	5	all with SI=5	Invalid OPC. Point code cannot be zero, and type must be ANSI.
6	5	all with SI=5	Invalid CICS. Must be in range 016383.
10	5	all with SI=5	Invalid CICE. Must be in range 016383.
11	5	all with SI=5	Invalid CIC range. CICS must be less than or equal to CICE. On a split
			operation, CICS must be strictly less than than CICE (cannot split an
		; ; ;	range with only one entry).
12	5	resize	Invalid NCICS. Must be in range 016383.
13	5	resize	Invalid NCICE. Must be in range 016383.
14	5	resize	Invalid new CIC range. NCICS must be less than or equal to NCICE.
15	5	split	Invalid SPLIT value. Must be in range 016383. Must be greater than
			CICS and less than or equal to CICE.
16	all, 5	enter, split	No free entries in table.
17	5	enter, override	CIC range overlaps but does not match existing entry.
18	all	enter	Entry already has 16 associations.
19	5	resize, split, override	Entry to be changed not found in table.
20	5	resize	New entry would overlap another entry (allowed to overlap the entry
			being changed, but no others).
21	all	delete	Entry to be deleted not found in table.

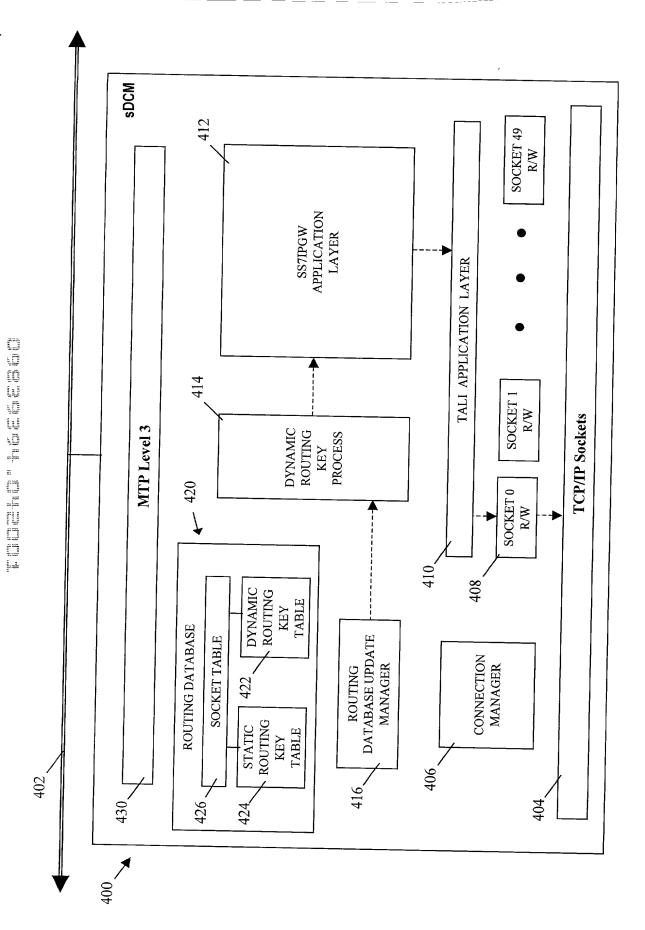


Figure 10

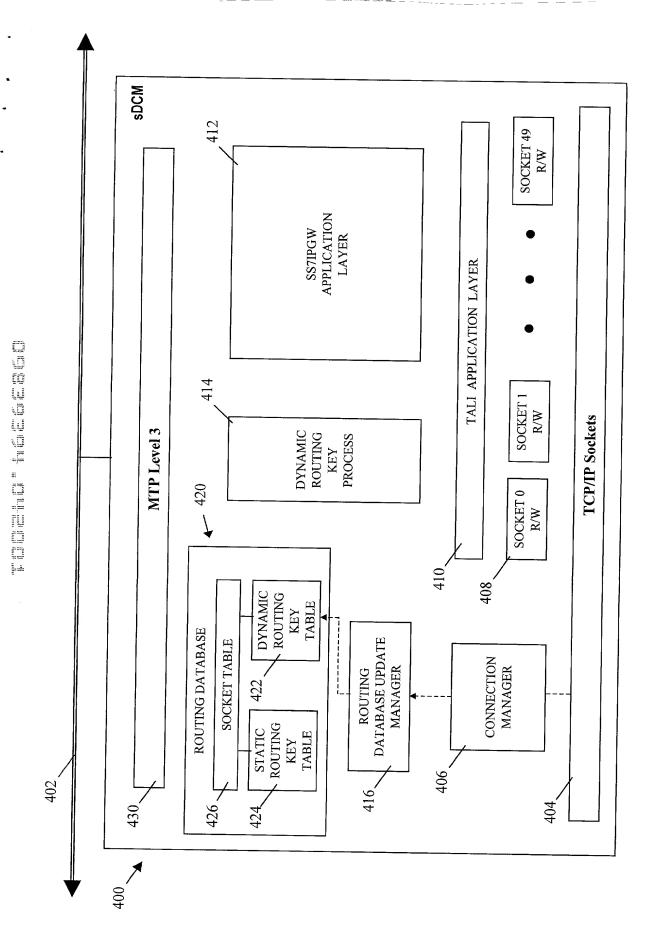


Figure 11

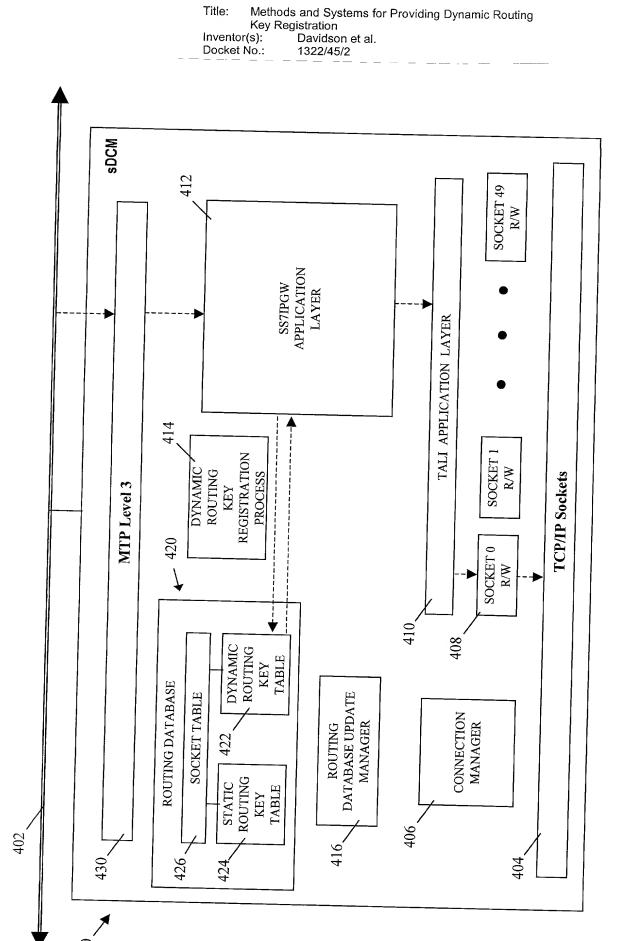


Figure 12

Methods and Systems for Providing Dynamic Routing Key Registration (s): Davidson et al. No.: 1322/45/2

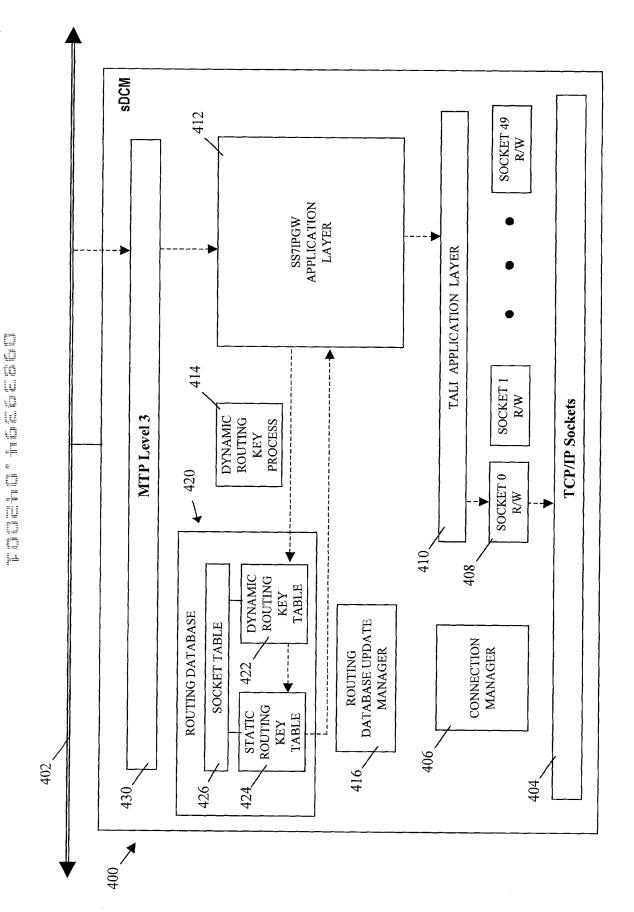


Figure 13

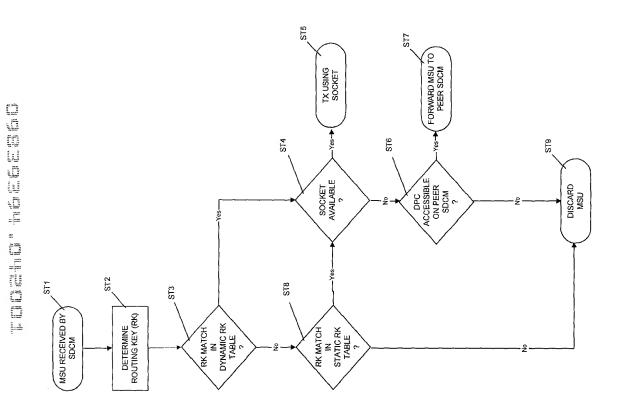


Figure 14

Methods and Systems for Providing Dynamic Routing Key Registration r(s): Davidson et al. Title:

Inventor(s): Docket No.: 1322/45/2

286 278 MGC IMT SDCM 1504 -71502 MGC 284 MASP B Σ 282 MASP A 276

Figure 15